## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Duggan et al.

Appl. No.: 09/529,130

35 U.S.C. § 371 Date: June 22, 2000

For:

Conjugates of Galactose-Binding

Lectins and Clostridial Neurotoxins as Analgesics Confirmation No.: 2901

Art Unit: 1653

Examiner: Kam, Chih Min

Atty. Docket: 1581.0580000/RWE/ALS

## Fifth Supplemental Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Fifth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Fourth Supplemental Information Disclosure Statement filed on November 7, 2003 in connection with the above-captioned application.

Further to the recent notice "Changes To Support Implementation of the United States Patent and Trademark Office 21st Century Strategic Plan; Final Rule," copies of all of the U.S. patents or published patent applications cited on the accompanying PTO-1449 forms need not be provided. 1287 O.G. 67 (October 12, 2004); 69 Fed. Reg. 56481 (September 21, 2004).

The Examiner's attention is directed document AP3 which is the published PCT application from which co-pending U.S. patent application 09/937,484 to Foster et al. (35 U.S.C. § 371 date: January 23, 2002) is derived. This U.S. patent application is directed to related technical subject matter. The identification of this U.S. patent application is not to be construed as a waiver of secrecy as to this application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination. Applicants also provide herewith as documents AT15-AR17 copies of the substantive examination details and Applicants' replies from this co-pending application.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following discussion of the relevance of the non-English language document AO3 cited on Form PTO 1449: Document AO3 is in German; an unverified English language translation of document AO3 is provided as document AS15.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application. Attached is our PTO-2038

Credit Card Payment Form in the amount of \$180.00 in payment of the fee under 37

C.F.R. § 1.17(p).

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the

present patent application does not exist.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Aaron L. Schwartz
Agent for Applicants
Registration No. 48,181

Date: December 9, 2004

1100 New York Avenue, N.W. Washington, D.C. 20005-3934

(202) 371-2600

341868\_1.DOC

Page 1 of 8 ATTY. DOCKET NO.
581.0580000/RWE/ALS
FIRST NAMED INVENTOR
Wichael John Duggan ATTY, DOCKET NO. APPLICATION NO. 09/529,130 **FORM PTO-1449** 35 U.S.C. § 371 Date June 22, 2000 FIFTH SUPPLEMENTAL INFORMATION ART UNIT 1653 **STATEMENT ATENT DOCUMENTS EXAMINER** DOCUMENT NUMBER DATE NAME **CLASS** SUB-CLASS FILING DATE INITIAL AA AB 07/18/1995 Allen, Jr. et al. AC1 5,433,946 05/22/2001 Mathiowitz et al. AD1 6,235,313 AE AF AG AH AI ΑJ AK **FOREIGN PATENT DOCUMENTS** EXAMINER DOCUMENT SUB-CLASS TRANSLATION INITIAL NUMBER DATE COUNTRY **CLASS** Yes No AL Yes ΑM No Yes No ΑN Abstract Yes EP 0 602 686 A2 | 06/22/1994 Europe No AO3 Yes No 10/05/2000 **WIPO** AP3 WO 00/57897 OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Diaz, A. and Dickenson, A.H., "Blockade of spinal N- and P-type, but not L-type, calcium channels inhibits the excitability of rat dorsal horn neurones produced by subcutaneous AR 10 formalin inflammation," Pain 69:93-100, Elsevier Science Ireland Ltd. (January 1997) Edmonds, B.T. and Koenig, E., "Transmembrane Cytoskeletal Modulation in Preterminal Growing Axons: I. Arrest of Bulk and Organelle Transport in Goldfish Retinal Ganglion Cell AS 10 Axons Regenerating In Vitro by Lectins Binding to Sialoglycoconjugates," Cell Motil. Cytoskeleton 17:106-117, Wiley-Liss, Inc. (1990) Edmonds, B.T. and Koenig, E., "Transmembrane cytoskeletal modulation in preterminal growing axons. II. Limax flavus agglutinin-induced receptor redistribution, capping and ΑT 10 internalization in varicosities of growing axons," J. Neurocytol. 20:232-247, Chapman and Hall Ltd. (1991) DATE CONSIDERED **EXAMINER** 

_		
		Page 2 of 8
	ATTY. DOCKET NO. 1581.0580000/RWE/ALS	APPLICATION NO. 09/529,130
FORM PTO-1449	FIRST NAMED INVENTOR	
	Michael John Duggan	
FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE	35 U.S.C. § 371 Date	ART UNIT
STATEMENT	June 22, 2000	1653

	- <sub> </sub>	10000000		PATENT DOCUMENT	<del>3</del>	T	<del> </del>
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
INITIAL	AA	NOMBER	DAIL	TV WIL	32.00		
	AB						
	AC						
	AD			•			
	AE						
	AF						
	AG					<u> </u>	
	AH					<u> </u>	
		-				<u> </u>	
	Al						
	AJ						
	AK						
=\/.			FOREI	GN PATENT DOCUME	NTS	<del></del>	
EXAMINER INITIAL		DOCUMEN NUMBER	T DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Ye N
	AM						Ye N
	AN						Ye N
<del></del>							Ye N
	AO						Ye
	_ AP	ОТН	IER (Including A	uthor, Title, Date, Pert	inent Pages, etc.	.)	N
	AR	11 aerud	<i>ginosa</i> and its stro alactose," <i>Biochii</i>	the specificity of the D-gong binding to hydrophom. Et Biophys. Acta 111	bic derivatives of	D-galactose ar	nd
	AS  Garret, C., et al., "Pharmacological properties of a potent and selective no substance P antagonist," Proc. Natl. Acad. Sci. USA 88:10208-10212, Na Sciences (1991)						
	AT	11 Eryth	rina corallodendi	erences in the Cross-Lin on Lectin with Asialofett Glycoprotein Complexes	uin. Evidence for (	Carbohydrate-0	Carbohydrate
EXAMINER	_1	<u> </u>	<u> </u>		DATE	CONSIDERED	
				tion is in conformance with MF			

		Page 3 of	8
	ATTY. DOCKET NO. 1581.0580000/RWE/ALS	APPLICATION NO. 09/529,130	
FORM PTO-1449	FIRST NAMED INVENTOR		
	Michael John Duggan		
FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE	35 U.S.C. § 371 Date	ART UNIT	
STATEMENT	June 22 2000	1653	

				U.S	PATENT DOCUMEN	TS				
EXAMINER			UMENT	DATE	NAME	CLASS	SUB-CLASS	FILING DATE		
INITIAL	AA	NUM	BEK	DATE	INAIVIE	CLASS	30B-CLASS	TILING DATE		
	AB									
	AC	1								
	AD									
			·							
	AE									
	AF									
	AG					-				
	АН									
	Al									
	AJ									
	AK									
		<u> </u>	_	FORFI	GN PATENT DOCUM	FNTS				
EXAMINER		DOCUMENT					0.10.01.400	TDANIOL ATION		
INITIAL		NU	MBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION Yes		
	AL	<del></del>						No Yes		
	AM	<u> </u>						No Yes		
	AN							No Yes		
	AO							No		
	AP					- 1		Yes No		
		1	OTHER	(Including A	uthor, Title, Date, Pe	rtinent Pages, etc.	)			
	AR	12	Heilman Antagon (1976)	, R.D., et al., ' ists," <i>Res. Co</i>	'An Evaluation of the H mmun. Chem. Pathol.	lot Plate Technique <i>Pharmacol. 13</i> :635	to Study Narco -647, PJD Publ	otic lications Ltd.		
	AS	12	Specific	Iglesias, J.L., et al., "Purification and Properties of a D-Galactose/N-Acetyl-D-galacto Specific Lectin from Erythrina cristagalli," Eur. J. Biochem. 123:247-252, Blackwell S Ltd. (1982)						
	AT	12	Vasodila	ition and Neui	er, P., "Substance P a ogenic Plasma Extrav r-Verlag (1979)	s Neurogenic Media asation," <i>Naunyn-S</i>	ator of Antidrom	nic Pharmacol.		
EXAMINER						DATE	CONSIDERED			
				·····	tion is in conformance with N					

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

		Page 4 of 8
	ATTY. DOCKET NO. 1581.0580000/RWE/ALS	APPLICATION NO. 09/529,130
FORM PTO-1449	FIRST NAMED INVENTOR	
	Michael John Duggan	
FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE	35 U.S.C. § 371 Date	ART UNIT
STATEMENT	June 22, 2000	1653

EXAMINER			JMENT		PATENT DOCUMENTS		0.10 0.100	T		
NITIAL	AA	NUME	BER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE		
	AB									
	AC		<del></del>							
	AD									
	AE						<u> </u>			
	AF									
	AG	ļ <u> </u>					<u> </u>			
	<u> </u>									
	AH									
	Al									
	AJ									
	AK									
				FOREIG	GN PATENT DOCUME	NTS	<u></u>			
EXAMINER INITIAL			CUMENT MBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION		
	1	11011						Ye		
	AL							N Ye		
	AM							Ye		
	AN							N Ye		
	AO							N		
	AP							Ye N		
			OTHER	R (Including A	uthor, Title, Date, Pert	inent Pages, etc.	.)			
	AR	13	Lis, H. and Sharon, N., "Lectins as Molecules and as Tools," <i>Ann. Rev. Biochem.</i> 55:35-Annual Reviews, Inc. (1986)							
	AS	Pintér, E., et al., "Lack of evidence for tachykinin NK <sub>1</sub> receptor-mediated neutro accumulation in the rat cutaneous microvasculature by thermal injury," Eur. J. F. 369:91-98, Elsevier Science B.V. (March 1999)								
	AT	13	and aut	onomic ganglia	ruger, L., "Selective neu a: relation of lectin reacti 1, Chapman and Hall Lt	vity to peptide an				
EXAMINER		1				DATE	CONSIDERED	_		
					ion is in conformance with MF					

		Page 5 of 8
	ATTY. DOCKET NO. 1581.0580000/RWE/ALS	APPLICATION NO. 09/529,130
FORM PTO-1449	FIRST NAMED INVENTOR	
	Michael John Duggan	
FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE	35 U.S.C. § 371 Date	ART UNIT
STATEMENT	June 22, 2000	1653

EXAMINER	1	DOC	UMENT	1	PATENT DOCUMENT			
INITIAL		NUM		DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA							
	AB							
	AC			<u> </u>		-		
	AD	<u> </u>						
		ļ <u>-</u>					-	<u> </u>
	AE							
	AF							
	AG							
	AH							
	Al							
	AJ			_				
	AK							
				EODEIG	 SN PATENT DOCUME	NTS		
EXAMINER		1	<u>.                                    </u>	FOREIG	JN PATENT DOCUME	1113	1	
INITIAL			CUMENT MBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL							Ye.
								Ye N
	AM	<del>-</del>						Ye
	AN							Ne Ye
	AO							Ne Ye
	AP							N N
		<u> </u>	OTHER	(Including A	uthor, Title, Date, Pert	inent Pages, etc	.)	
	AR	14			, "Legume lectins - a lar eration of American So			
	AS	14	System	of Birds and M	K., "Chapter 26. Cell C lammals," in: <i>The Neuro</i> w York, N.Y. pp-389-39	on in Tissue Cultu	ire, Haynes, L.	
	AT	14			I., "Identification of lecti & Hall (June 1996)	n binding sites in t	the rat brain," (	Glycoconj. J.
EXAMINER			<u> </u>			DATE	CONSIDERED	
					ion is in conformance with MF			

		Page 6 of 8
	ATTY. DOCKET NO. 1581.0580000/RWE/ALS	APPLICATION NO. 09/529,130
FORM PTO-1449	FIRST NAMED INVENTOR	
	Michael John Duggan	
FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE	35 U.S.C. § 371 Date	ART UNIT
STATEMENT	June 22, 2000	1653

EXAMINER			JMENT							
NITIAL		NUME	BER	DATE	NAME	CLASS	SUB-CLASS	FILING DAT		
	AA									
	AB									
	AC	-								
	AD	<del> </del>								
	AE	-								
	AF		<u> </u>							
	AG	<u> </u>								
	AH									
	AI									
	AJ									
	AK	_								
	<u> </u>	1		FOREIC	ON PATENT DOCUME	NTS				
EXAMINER INITIAL			CUMENT MBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATIO		
	AL							Ye		
		-						Ye		
	AM	<u> </u>						Ye		
	AN	-						Ye		
	AO	-						Ye		
	AP	<u> </u>	OTUES	) (Including A	uthor, Title, Date, Perti	inant Bagas, etc.		N		
		T	OTHER	(including A	utnor, Title, Date, Perti	ment Pages, etc	· <u>)                                    </u>			
	AR  Zhou, L., et al., "Expression and Purification of the Light Chain of Botu Single Mutation Abolishes Its Cleavage of SNAP-25 and Neurotoxicity with the Heavy Chain," Biochem. 34:15175-15181, American Chemical							econstitution		
	AS	<u>15</u>	Esp@cenet Database 12, English language abstract of European Patent No. 0 602 686 A2							
	AT	<u>15</u>			mmunication for United Patent and Trademark C					
EXAMINER	1	1				DATE	CONSIDERED			
EYAMINED: In	itial if refe	rence co	nsidered w	hether or not citati	on is in conformance with MP	PEP 600 Draw line th	rough citation if no	nt in conformance		

		Page 7 of 8
	ATTY. DOCKET NO. 1581.0580000/RWE/ALS	APPLICATION NO. 09/529,130
FORM PTO-1449	FIRST NAMED INVENTOR	
	Michael John Duggan	
FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE	35 U.S.C. § 371 Date	ART UNIT
<u>STATEMENT</u>	June 22, 2000	1653

EXAMINER	Т	DOCUMENT		PATENT DOCUMENTS		1	
INITIAL		NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA			,			
	AB						
	AC						
	AD						
	AE						
	AF	<u></u>					
	AG						
	AH						
	Al				-		
	AJ						
	AK						
· · · · · · · · · · · · · · · · · · ·	1	<u> </u>	FOREI	GN PATENT DOCUME	NTS		
EXAMINER INITIAL		DOCUMEN NUMBER	IT DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL	Nomber					Ye:
							Ye N
	AM						Ye
	AN		·				Ne Ye
	AO						No Ye
	AP	OTL	IED (Including A	uthor, Title, Date, Pert	inant Pages, etc.	1	N
	AR	Schv	vartz, A.L., filing f	or United States Patent A	Application No. 09		ages; "Reply to
	AS	Aude 16 page	et, M.A., Office Co s, United States	ommunication for United Patent and Trademark C	States Patent Ap	plication No. 0 e 21, 2004)	9/937,484, 16
	AT	16 to the		or United States Patent and ugust 17, 2004)			
EXAMINER					DATE	CONSIDERED	
			d, whether or not cita				

		Page 8 of 8
	ATTY. DOCKET NO. 1581.0580000/RWE/ALS	APPLICATION NO. 09/529,130
FORM PTO-1449	FIRST NAMED INVENTOR	
	Michael John Duggan	
FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE	35 U.S.C. § 371 Date	ART UNIT
STATEMENT	June 22, 2000	1653

				U.S.	PATENT DOCUMENTS	S				
EXAMINER INITIAL		DOCU	IMENT SER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE		
THE TOTAL	AA	1		97,112						
	AB									
	AC									
	AD									
	AE									
	AF									
<del></del>	AG									
	AH		<del></del>							
	Al	_								
	AJ									
	AK	ļ								
				EODEIG	N PATENT DOCUME	NTS				
EXAMINER	<u> </u>			FOREIC	SN PATENT DOCUME	113	Τ			
INITIAL			UMENT MBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION		
	AL							Yes No		
	AM					_		Yes No		
-	AN						:	Yes No		
	AO		-					Yes No		
***	AP							Yes No		
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)										
	AR	Schwartz, A.L., filing for United States Patent Application No. 09/937,484, 25 pages with Exhibits A-D, "Amendment and Reply Under 37 C.F.R. § 1.111" (filed September 21, 2004)								
	AS							ļ		
	AT									
EXAMINER		1				DATE	CONSIDERED			
EXAMINER: Ir	nitial if refe	rence co	nsidered, who	ether or not citati	on is in conformance with MP	PEP 609. Draw line the	rough citation if no	ot in conformance		
and not considered. Include copy of this form with next communication to Applicant.										